



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN THE APPLICATION OF : David Allen et al.
FOR : METHOD AND APPARATUS FOR DETECTION
OF CONTAMINANTS IN A FLUID
SERIAL NO. : 10/729,740
FILED : December 5, 2003
EXAMINER : Not yet known
ART UNIT : Not yet known
ATTORNEY DOCKET NO. : ST8653US.CIP1

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement has been filed pursuant to the waiver issued by the U.S. Patent and Trademark Office on July 11, 2003, wherein the Office waived the requirement under 37 CFR 1.98(a)(2)(i) for submitting copies of each cited U.S. patent and each U.S. patent application publication, for all U.S. national patent applications filed after June 30, 2003 and for all international applications that have *entered the national stage* under 35 USC § 371 after June 30, 2003.

1. Pursuant to 37 C.F.R. 1.97 and 1.98, and in compliance with 37 C.F.R. 1.56, the Office's attention is directed to the patents, publications and other information listed on the attached form PTO-1449. The required copy of each document is enclosed *except for* documents previously cited by or submitted to the Office in a prior application(s) relied upon for an earlier filing date under 35 U.S.C. 120, said prior application(s) identified below:

Serial No.

Filing Date

2. Pursuant to 37 C.F.R. 1.97(g), the filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made.

3. Pursuant to 37 C.F.R. 1.97(h), the filing of this Information Disclosure Statement shall not be construed as an admission that the information cited in this Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. 1.56(b).

4. Regarding each listed document that is not in the English language, an English-language translation accompanies this Statement as indicated on the attached PTO-1449 or a concise explanation of the relevance of the document is set forth in the following document(s):

- ☐ Copy of each English language version of a search report by a foreign patent office in a counterpart foreign application, indicating the degree of relevance found by the foreign office of each document being submitted from the search report.
- ☐ Attachment entitled "Concise Explanation of Relevance of Non-English Language Documents."
- ☐ English-language abstract.

☒ 5. Pursuant to 37 C.F.R. 1.97(b) this Statement is being filed:

- ☐ concurrently with the filing of the national application; or
- ☐ within 3 months of the filing date of a national application; or
- ☒ within 3 months of the date of the entry of the national stage as set forth in 37 CFR 1.491 in an international application; or
- ☐ before the mailing date of a first Office Action on the merits.

{NOTE: Statements filed within the foregoing periods require neither a fee nor a Certification}

☐ 6. Pursuant to 37 C.F.R. 1.97(c) this Statement is being filed *after* the mailing date of a first Office Action on the merits but *before* the mailing date of either: a Final Office Action under 37 C.F.R. 1.113 or a Notice of Allowance under 37 C.F.R. 1.311, whichever occurs first. Accordingly, this Statement is accompanied by:

- ☐ Certification as specified in 37 C.F.R. 1.97(e); OR
- ☐ The submission fee set forth in 37 C.F.R. 1.17(p). Enclosed is Form PTO-2038 authorizing the amount of \$180 to be charged to our credit card to cover the fee set forth in 37 C.F.R. 1.17(p) for consideration of this Statement.

☐ 7. Pursuant to 37 C.F.R. 1.97(d) this Statement is being filed *after* the period specified in 37 C.F.R. 1.97(c), but *before or concurrent with* payment of the Issue Fee. Accordingly, this Statement is accompanied by:

- A. Certification as specified in 37 C.F.R. 1.97(e); AND

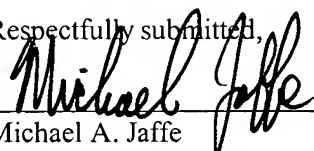
B. The submission fee set forth in 37 C.F.R. 1.17(p). Enclosed is Form PTO-2038 authorizing the amount of \$180 to be charged to our credit card to cover the fee set forth in 37 C.F.R. 1.17(p) for consideration of this Statement.

- () 8. Statement filed *after* payment of Issue Fee, but *before* patent grant:
This Statement is being filed *after* payment of the Issue Fee, but *before* grant of the patent; accordingly it is understood that this Statement will *not* be considered. However, it is respectfully requested that this Information Disclosure Statement be placed in the application file. {NOTE: no fees or certification required}
- () 9. CERTIFICATION under 37 C.F.R. 1.97 (e) (if applicable):
- () The undersigned hereby certifies that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than 3 months prior to the filing of this Information Disclosure Statement, **OR**
- () The undersigned hereby certifies that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. 1.56(c) more than 3 months prior to the filing of this Information Disclosure Statement.

The Commissioner is hereby authorized to charge any additional fees required for consideration of this Information Disclosure Statement, or credit any overpayment to Deposit Account No. 50-0537, identifying our Docket No. ST8653US.CIP1.

Date: February 3, 2004

Respectfully submitted,

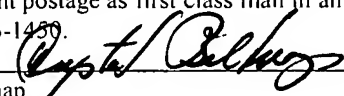

Michael A. Jaffe
Registration No. 36,326

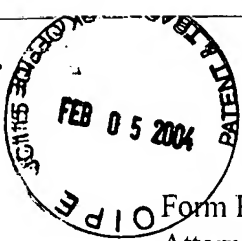
Kusner & Jaffe
Highland Place – Suite 310
6151 Wilson Mills Road
Highland Heights, Ohio 44143
440-684-1090 (phone)
440-684-1095 (fax)

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8

I hereby certify that this correspondence (along with any paper referenced as being attached or enclosed) is being deposited on the below date with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date: February 3, 2004


Crystal Belknap



Form PTO-1449

Attorney Docket: ST8653US.CIP1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION

In re application of: David Allen et al.

Serial No: 10/729,740

Group No.: Not yet known

Filed: December 5, 2003

Examiner: Not yet known

For: METHOD AND APPARATUS FOR DETECTION OF CONTAMINANTS IN A FLUID

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

U.S. Patent Documents

Examiner Initials	Document Number	Date	Name	Class
_____	4,427,772	01/24/1984	Kodera et al.	435/27
_____	4,525,265	06/25/1985	Abe et al.	204/403
_____	4,674,879	06/23/1987	Gregorig et al.	356/301
_____	4,857,152	08/15/1989	Armstrong et al.	204/1 T
_____	5,157,968	10/27/1992	Zfira	73/149
_____	5,243,858	09/14/1993	Erskine et al.	73/204.26
_____	5,364,510	11/15/1994	Carpio	204/153.1
_____	5,439,569	08/08/1995	Carpio	204/153.1
_____	5,459,568	10/17/1995	Yano et al.	356/336
_____	5,600,142	02/04/1997	Van Den Berg et al.	250/339.13

_____	5,847,276	12/08/1998	Mimken et al.	73/453
_____	5,882,590	03/16/1999	Stewart et al.	422/28
_____	6,369,387	04/09/2002	Eckles	250/343
_____	US 2003/0063997 A1	04/03/2003	Fryer et al.	422/3

Other Prior Art (Inc. Author, Title, Date, Pertinent Pages, Etc.)

Examiner

Initials

Document

_____	U.S. Patent Application Serial No. 10/456,378, filed June 6, 2003, Centanni, entitled: METHOD AND APPARATUS FOR FORMULATING AND CONTROLLING CHEMICAL CONCENTRATIONS IN A SOLUTION.
_____	U.S. Patent Application Serial No. 10/456,380, filed June 6, 2003, Centanni, entitled: METHOD AND APPARATUS FOR FORMULATING AND CONTROLLING CHEMICAL CONCENTRATIONS IN A GAS MIXTURE.
_____	U.S. Patent Application Serial No. 10/667,988, filed September 22, 2003, Korenev et al., entitled: METHOD AND APPARATUS FOR MEASURING THE CONCENTRATION OF HYDROGEN PEROXIDE IN A FLUID.
_____	T. J. Buckley et al., " <i>Toroidal Cross Capacitor for Measuring the Dielectric Constant of Gases</i> ," Review of Scientific Instruments, Vol. 71, No. 7, July 2000, pp. 2914-2921.
_____	Gross et al., " <i>The Dielectric Constants of Water Hydrogen Peroxide and Hydrogen Peroxide-Water Mixtures</i> ," L. Amer. Chem. Soc., Vol. 72, 1950, pp. 2075-2080.
_____	" <i>Humidity Sensor Theory and Behavior</i> ," Psychometrics and Moisture, Honeywell HVAC, November 27, 2002.
_____	Philipp, " <i>Charge Transfer Sensing</i> ," 1997.
_____	Wojslaw, " <i>Everything You Wanted to Know About Digitally Programmable Potentiometers</i> ," Catalyst Semiconductor, Inc., 10/17/2001, Publication No. 6009.

_____ Kittel, *"Introduction to Solid State Physics,"* Fourth Edition, John Wiley & Sons, Inc., 1971.

_____ Philipp, *"The Charge Transfer Sensor,"* Sensors Magazine, 10/1999.

Examiner:

Date Considered:

**Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.